THE WORLD OF LEARNING

FIFTEENTH EDITION

THE WORLD OF LEARNING 1964-65

FIFTEENTH EDITION



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FOREWORD

THE rapid growth of education throughout the world is once again reflected in a large increase in the number of pages in this, the fifteenth, edition of THE WORLD OF LEARNING.

New universities are being founded in developed and undeveloped countries alike and existing universities increase in size year by year. The great advance in technological education also contributes to the expansion of this volume.

Once again we have been greatly encouraged in our task by the willing co-operation of innumerable contributors, without whose help we should not have been able to present such a wealth of up-to-date information. We should like to extend to them our very sincere thanks.

December 1964.

A.A.	• •	Associate in Arts
A.B.	• •	Bachelor of Arts
A.C.A.	••	Associate of the Institute of Chartered Accountants
Acad.		Academy
A.C.C.S.		Associate of the Corporation of Secretaries
A.C.I.I.	••	Associate of the Chartered Insurance Institute
A.C.I.S.		Associate of the Chartered Institute of Secretaries.
A.C.T.		Australian Capital Territory
A.D.C.		Aide-de-camp
Admin.		Administrative, Administration
Agr. de D.		Agrégé de Droit
Agr. de M.	• •	Agrégé de Médecine
Agr. de Sc.	• •	Agrégé de Science
Agr. des L.		Agrégé des Lettres
A.I.A.	• •	Associate of Institute of Actuaries;
		American Institute of Architects
A.I.A.L.	• •	Associate Member of the International Institute of Arts and Letters.
A.I.B.		Associate of the Institute of Bankers
A.I.C.E.	• •	Associate of the Institution of Civil Engineers
A.I.C.E.A.	• •	Associate of Industrial and Commercial Executive Accountants
A.I.Ch.E.		American Institute of Chemical Engineers
A.I.F.	• •	
A.I.I.S.	• •	Australian Imperial Forces
	• •	Associate of the Irish Institute of Secretaries
A.I.L.		Associate of the Institute of Linguists
A.I.M.		Associate of the Institution of Metallurgists
A.I.Mech.E	C.	Associate of the Institution of Mechanical Engineers
A.I.M.T.A.	••	Associate of the Institute of Municipal Treasurers and Accountants
A.Inst.C.E.		Associate of the Institution of Civil
A.I.R.I.		Associate of the Institution of the Rubber
A.K.C.		Industry
A.L.A.	• •	Associate of King's College (London)
	• •	Associate of the Library Association
Ala.	• •	Alabama
A.L.S.	• •	Associate of the Linnæan Society
A.M.	• •	Master of Arts
A.M.A.	• •	Associate of the Museums Association
A.M.I.C.E.		Associate Member of the Institution of Civil Engineers
A.M.I.Chen	n.E.	Associate Member of the Institution of Chemical Engineers
A.M.I.E.E.		Associate Member of the Institution of Electrical Engineers
A.M.I.Mech	ı.E.	Associate Member of the Institution of Mechanical Engineers
A.M.I.Struc	ct.E.	Associate Member of the Institution of Structural Engineers
A.P.		Andhra Pradesh
A.P.I.		Associate of the Plastics Institute
Apptd.	••	Appointed
A.R.A.		Associate of the Royal Academy
A.R.A.M.		Associate of the Royal Academy of Music
ADCA		Accessed to the Design College of the

Associate of the Royal College of Art

Associate of the Royal College of Music

A.R.C.A.

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A.R.C.O.
              Associate of the Royal College
                  Organists
A.R.C.S.
               Associate of the Royal College of Science
A.R.E.
               Associate of the Royal Society of Painter
A.R.I.B.A.
               Associate of the Royal Institute of
                  British Architects
A.R.I.C.
               Associate of the Royal Institute of
                 Chemistry
A.R.I.C.S. ..
               Associate of the Royal Institution of
                 Chartered Surveyors
Ariz.
               Arizona
Ark.
               Arkansas
A.R.S.A.
               Associate of the Royal Scottish Academy;
               Associate of the Royal Society of Arts
A.R.W.S.
               Associate of the Royal Society of Painters
                 in Water Colours
A.S.C.E.
               American Society of Civil Engineers
A.S.M.E.
               American Society of Mechanical En-
                  gineers
               Association
Assen.
Assoc.
               Associate
Asst.
               Assistant
Aug.
               August
B.A...
               Bachelor of Arts
B.Agr.
               Bachelor of Agriculture
B.A.(Ed.)
               Bachelor of Arts (Education)
B.A.O.
               Bachelor of Obstetrics
B.Arch.
               Bachelor of Architecture
B.A.S.
               Bachelor in Agricultural Science
               Bachelor of Applied Science
B.A.Sc.
               Bachelor of Business Administration
B.B.A.
B.B.C.
               British Broadcasting Corporation
               Bachelor of Civil Engineering
B.C.E.
B.Ch., B. Chir.
               Bachelor of Surgery
B.Chem.E.
               Bachelor of Chemical Engineering
               Bachelor of Civil Law; Bachelor of Canon
B.C.L.
                 Law
B.Comm.
               Bachelor of Commerce
               Bachelor of Commercial Sciences
B.C.S.
B.D.
               Bachelor of Divinity
B.D.S.
               Bachelor of Dental Surgery
Bachelor of Engineering; Bachelor of Edu-
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                 cation
B.Ec.
               Bachelor of Economics
B.Ed.
               Bachelor of Education
B.E.E.
               Bachelor of Electrical Engineering
B.Eng.
               Bachelor of Engineering
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B.Eng.A.
               Bachelor of Agricultural Engineering
B.E.Sc.
               Bachelor of Engineering Science
B.F.A.
               Bachelor of Fine Arts
B.For.
               Bachelor of Forestry
B.I.D.
               Bachelor of Industrial Design
B.Lit(t).
               Bachelor of Letters
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B.LL.
               Bachelor of Laws
B.L.S.
               Bachelor of Library Science
B.M.
               Bachelor of Medicine
RMA
               British Medical Association
               Bachelor of Mining Engineering
B.M.E.
B.Mus.
               Bachelor of Music
B.N.
               Bachelor of Nursing
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B.Paed. (or	•	C.S.S.F	Confédération des Sociétés Scientifiques
Pd.)	Bachelor of Pedagogy		Française
B.P.E	Bachelor of Physical Education	C.St.J	Commander of (the Order of) St. John of
B.Phar			Ierusalem
B.Phil		Cttee	Committee
Br		C.V.O	Commander of the (Royal) Victorian
Bro			Order
B.S	Bachelor of Science; Bachelor of Surgery		
B.S.A			
B.Sc		D.Agr	Doctor of Agriculture
B.Sc.C.E		D.Arch	Doctor of Architecture
B.S.C		D.B	Bachelor of Divinity
B.Sc.Com		D.B.E	Dame Commander of (the Order of) the
B.Sc.(Econ.)	Bachelor of Science in the Faculty of	*	British Empire
	Economics	D.C	District of Columbia
B.Sc.(Eng.)	Bachelor of Science in the Faculty of	D.C.H	Diploma in Child Health
50 5	Engineering	D.C.L	
B.Sc.F.	Bachelor of Science in Forestry	D.C.M.	Distinguished Conduct Medal
B.S. in H.E.	Bachelor of Science in Home Economics	D.Cn.L	
B.Sc.(M.E.)	Bachelor of Science in Mechanical Engi-	D.C.S	
	neering	D.C.T	
B.Sc.Met	Bachelor of Science (Metallurgy)	D.D	
B.Sc.Pharm.	Bachelor of Science in Pharmacy	D.D.C.	
B.S.D	Bachelor of Didactic Science; Bachelor of	D. de l'U	The state of the s
	Science in Dentistry	D.D.S	T
Bt	Baronet	D Econ	Doctor of Economics
B.Theol	Bachelor of Theology	D.Ed	
		Del	5 1 · · · · · · · · · · · · · · · · · ·
c	circa (approximately)	D. en D	
C.A	Chartered Accountant	D.Eng	
Calif	California	Dept	
Cantab	Of Cambridge University	D. ès L	
C.B	Companion of the (Order of the) Bath	D. ès Sc	
C.B.E	Commander of (the Order of) the British	D.F.A	
	Empire	D.F.C	TO: 4: 11 1 TO 1 C
C.E	Civil Engineer	D.H.L	
C.G.I.A	City and Guilds Institute Award	D.Hy	~ · · · · · · · · · · · · · · · · · · ·
С.Н	Companion of Honour	D.I.H	
Chair	Chairman	Dip. Bact	Diploma in Bacteriology
Ch.B.	Bachelor of Surgery	Dip. Ed	Diploma in Education
Ch.M	Master of Surgery (Edinburgh Uni-	Dip. Ing	Diploma in Engineering
	versity)	Dip. Pub.	Froma in Diagnooring
C.I.A.L	Corresponding Member of the International	Admin	Diploma in Public Administration
	Institute of Arts and Letters	Dir	Director
C.I.E.	Companion of (the Order of) the Indian	D. Iur. Utr.	Doctor of both Civil and Canon Law
0.	Empire	D.L	The state of the s
Cie	Compagnie (Company)	D.Lett	
C.I.E.E	Companion of the Institution of Electrical	D.Lit(t)	TO
0.14	Engineers	D.Litt.S	T
С.М	Master in Surgery	D.L.S	Doctor of Library Science
C.M.G	Companion of (the Order of) St. Michael	D.M	T
CNDC	and St. George	D.Math.Sc	Doctor of Mathematical Science
C.N.R.S	Centre National de la Recherche Scienti-	D.M.D	
Co	fique	D.Mus	
Co	Company; County	D.Oph	Doctor of Ophthalmology
Colo	Colorado	D.Paed	Doctor of Paediatrics
Comm	Commission	D.Phil	Doctor of Philosophy
Commdr	Commander	D.P.H	Diploma in Public Health
Commr	Commissioner	D.P.M	Diploma in Psychological Medicine
Conf	Conference	D.P.H.N	Diploma in Public Health Nursing
Conn	Connecticut	Dr.h.c	
Corpn	Corporation	Dr. Ing	Doctor of Engineering
Corresp	Correspondent, Corresponding	Dr. Jur	Doctor of Laws
C.P	Congregation of the Passion	Dr. Med	Doctor of Medicine
C.P.A	Certified Public Accountant	Dr.Med.Dent.	Doctor of Dentistry.
C.P.H	Certificate of Public Health	Dr.Med.Vet.	Doctor of Veterinary Medicine
C.S.I.	Companion of (the Order of) the Star	Dr. Oec	Doctor of Commerce
CCID	of India	Dr. Phar.	Doctor of Pharmacy
C.S.I.R	Council for Scientific and Industrial	Dr.rer.Hort.	Doctor of Horticulture
	Research (re-named Commonwealth	Dr.rer.Nat	Doctor of Natural Science
	Scientific and Industrial Research	Dr.rer.Pol	Doctor of Political Science
	Organisation)	Dr. Theol	Doctor of Theology
			X505

	ABBREV	IATIONS	
D.S.C Distin	nguished Service Cross	F.I.A.L	Fellow of the International Institute of
	or of Science	T.I.A.D	Arts and Letters
	or of Applied Science	F.I.B	Fellow of the Institute of Bankers
	or of Science in Agriculture	F.I.C.E.A.	Fellow of Industrial and Commercial
	or of Political Sciences		Executive Accountants
	rtment of Scientific and Industrial	F.I.C.S	Fellow International College of Surgeons
	search	F.I.I.S	Fellow of the Irish Institute of Secretaries
D.S.M Distin	nguished Service Medal	F.I.L	Fellow of the Institute of Linguists
	nguished Service Order	F.I.M	Fellow of the Institution of Metallurgists
	or of Sacred Theology	F.Inst.F	Fellow of the Institute of Fuel
	or of Social Work	F.Inst.P	Fellow of the Institute of Physics
	or in Technology	F.Inst.Pet	Fellow of the Institute of Petroleum
	or of Theology	F.I.R.E	Fellow of the Institution of Radio Engi-
	ma in Tropical Medicine	ETDI	neers
	ur de l'Université de Paris	F.I.R.I	Fellow of the Institution of the Rubber
	or of Veterinary Medicine or of Veterinary Science	F J.I	Industry
D.V.S Docto	of vetermary beliefice	D TZ O	Fellow of King's College (London)
		Fla	Fellow of King's College (London) Florida
T.D	(To - do do - 47 C A)	F L.A	Fellow of the Library Association
T 1 T 1	or of Engineering (U.S.A.)	F.L.S	Fellow of the Linnæan Society
EAD Dead	elor of Education	F.M.A	Fellow of the Museums Association
72.41 T2.411	or of Education	F.N.I	Fellow of the National Institute of Sciences
Train Traini			(India)
	er of Education	F.Ph.S	Fellow of the Philosophical Society of
	or of Electrical Engineering		England
Exec Exec		F.Phys.S	Fellow of the Physical Society
		F.P.I.	Fellow of the Plastics Institute
		F.R.A.C.P.	Fellow of the Royal Australasian College
f found	lođ	EDACC	of Physicians
f found F.A.A. Fellov	w of the Australian Academy of	F.R.A.C.S	Fellow of the Royal Australasian College
	ence	F.R.Ae.S	of Surgeons
	w of the American Association for	F.R.A.H.S	Fellow of the Royal Aeronautical Society. Fellow of the Royal Australian Historical
	Advancement of Science		Society Society
	w of the Association of Certified and	F.R.A.I	Fellow of the Royal Anthropological
Cor	porate Accountants		Institute
F.A.C.D Fellow	w of the American College of Den-	F.R.A.I.A	Fellow of the Royal Australian Institute of
tist			Architects
F.A.C.P Fello	w of American College of Physicians	F.R.A.I.C	Fellow of the Architectural Institute of
	w of the American College of		Canada
	rgeons	F.R.A.M	Fellow of the Royal Academy of Music
	w of the Chartered Auctioneers' and	F.R.A.S	Fellow of the Royal Astronomical Society:
	ate Agents' Institute w of the American Institute of Archi-	PDDC	Fellow of the Royal Asiatic Society
r.A.I.A reliov		F.R.B.S	Fellow of the Royal Society of British
	and Agriculture Organisation		Sculptors: Fellow of the Royal Botanic Society
	w of Antiquarian Society Edinburgh	F.R.C.M	Fellow of the Royal College of Music
	w of the British Academy	F.R.C.O	Fellow of the Royal College of Organists
	w of the British Association of	F.R.C.O.G	Fellow of the Royal College of Obstetricians
	ountants and Auditors		and Gynæcologists
	v of the Institute of Chartered	F.R.C.P. (E.)	Fellow of the Royal College of Physicians
	countants		(Edinburgh)
F.C.C.S Fellow	w of the Corporation of Secretaries	F.R.C.P.(I.)	Fellow of the Royal College of Physicians
	v of the Chemical Institute of Canada	ED CC (C)	(Ireland)
	Chartered Insurance Institute	F.R.C.S.(C.)	Fellow of the Royal College of Surgeons
r.c.i.s renov	of the Chartered Institute of Secre-	EBCC /E	(Canada)
	of the Chemical Society	F.R.C.S. (E.)	Fellow of the Royal College of Surgeons (Edinburgh)
	al Capital Territory	F.R.C.V.S	Fellow of the Royal College of Veterinary
	of the Chartered Institute of Cost		Surgeons (London)
and	Works Accountants	F.R.Econ.S.	Fellow of the Royal Economic Society
F.D.S.R.C.S. Fellow	of the Royal College of Surgeons in	F.R.F.P.S	Fellow of Royal Faculty of Physicians and
Den	tal Surgery	Albania managia ang Malana	Surgeons
Fed Federa	ation, Federal	F.R.G.S	Fellow of the Royal Geographical Society
F.E.I.S Fellow	Educational Institute of Scotland	F.R.Hist.S.	Fellow of the Royal Historical Society
	of the Faculty of Anæsthetics,	F.R.Hort.S.	Fellow of the Royal Horticultural Society
F.F.R Fellow	val College of Surgeons	F.R.I.B.A	Fellow of the Royal Institute of British
F.G.A Fellow	of the Faculty of Radiologists of the Gemmological Association	EDIC	Architects
	of the Genmological Association of the Geological Society	F.R.I.C	Fellow of the Royal Institute of Chemistry
	of the Institute of Actuaries	F.R.I.C.S	Fellow of the Royal Institution of Char- tered Surveyors
			torod aniveyors

F.R. Hellow of the Royal Society of Arts F.R.S. Fellow of the Royal Society of Arts F.R.S.A. Fellow of the Royal Society of Arts F.R.S.A. Fellow of the Royal Society of Arts F.R.S.A. Fellow of the Royal Society of Edinburgh F.R.S.E. Fellow of the Royal Society of Edinburgh F.R.S.E. Fellow of the Royal Society of Edinburgh S.R.S.G.S. Fellow of the Royal Society of Edinburgh F.R.S.A. Fellow of the Royal Society of Identature F.R.S.S. Fellow of the Royal Society of South Artican Library Association F.S.A. (Soc.) Fellow of the Society of Antiquaries of Sp. Societand) F.S.A. Fellow of the Society of Antiquaries of Sp. Societand F.S.A. Fellow of the Society of Antiquaries of Sp. Societand F.S.A. Fellow of the Society of Antiquaries of Sp. Societand F.S.A. Fellow of the Society of Antiquaries of Sp. Societand F.S.A. Fellow of the Society of Antiquaries of Sp. Societand F.S.A. Fellow of the Society of Antiquaries of Sp. Society of Training F.S.A. (Soc.) Fellow of the Royal Statistical Society F.T.C.D. Fellow of the Society of Antiquaries of Sp. Societand F.S.S. Fellow of the Royal Statistical Society F.T.C.D. Fellow of the Total International Lobor of Trainity College, Dubin F.T.L. Fellow of the Total International Cross of (the Order of) the Royal Statistical Society F.T.C.D. Fellow of Trainity College, Dubin F.T.L. Fellow of the Society of Antiquaries of Sp. Fellow of the Royal Statistical Society F.T.C.D. Fellow of the Society of Sellow F.T.C.D. Fellow of Trainity College, Dubin F.T.C.D. Fellow of the Society for Sellow F.T.C.D. Fellow of the Society for Sellow F.T.C.D. Fellow of Trainity College, Dubin F.T.C.D. Fellow of Trainity College, Dubin F.T.C.D. Fellow of		ABBRE	ZIATIONS		
F.R.S. — Fellow of the Royal Society of Arts F.R.S.A. — Fellow of the Royal Society of Enthers F.R.S.E. — Fellow of the Royal Society of Edinburgh F.R.S.E. — Fellow of the Royal Society of Edinburgh F.R.S.E. — Fellow of the Royal Society of Edinburgh F.R.S.E. — Fellow of the Royal Society of Health F.R.S.E. — Fellow of the Royal Society of Health F.R.S.E. — Fellow of the Royal Society of Internative F.R.S.S. — Fellow of the Royal Society of South Africa — F.R.S.E. — Fellow of the Royal Society of South Africa — Medicine and Hygiane F.S.A. — Fellow of the Society of Antiquaries of S.S.A. — Fellow of the Society of Antiquaries of F.S.A.L. — Fellow of the Society of Antiquaries of F.S.A.L. — Fellow of the Society of Antiquaries of F.S.A.L. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Society of Antiquaries of F.S.B.E. — Fellow of the Dociety of England of Antiquaries of Antiquaries of Antiqua	F.R.Met.Soc.	Fellow of the Royal Meteorological Society	I.D.		Doctor of Jurisprudence
F.R.S.A. Fellow of the Royal Society of Arts F.R.San. Fellow of the Royal Society of Society of Rando F.R.S.C. Fellow of the Royal Society of Edinburgh F.R.S.C. Fellow of the Royal Society of Edinburgh F.R.S.C. Fellow of the Royal Society of Edinburgh F.R.S.S. Fellow of the Royal Society of Edinburgh F.R.S.L. Fellow of the Royal Society of International Society F.R.S.S. Fellow of the Royal Society of South F.R.S.S.A. Fellow of the Royal Society of Tropical Medicine and Hygiene F.S.A. Fellow of the Society of Antiquaries F.S.A. Fellow of the Royal Society of R	77 TO 0			• •	
F.R.S.A. Fellow of the Royal Society of Canada F.R.S.C. Fellow of the Royal Society of Canada F.R.S.C. Fellow of the Royal Society of Edinburgh F.R.S.C.S. Fellow of the Royal Society of Identity F.R.S.S. Fellow of the Royal Society of Health F.R.S.L. Fellow of the Royal Society of Identity F.R.S.S. Fellow of the Royal Society of Identity F.R.S.S. Fellow of the Royal Society of South F.R.S.L. Fellow of the Royal Society of South Medicine and Hygiene F.S.A. (Scot.) Fellow of the Society of Antiquaries of S.S.A. Fellow of the Society of Antiquaries of S.S.A.L.A. Fellow of the Society for British Entomology of the Society of Price of the Royal Statistical Society F.T.C.D. Fellow of Trinity College, Dublin F.T.C.L. Fellow of Trinity College of Music, London. F.T.I. Fellow of the State of Indian Empire G.G.B. Kotat (or Damel Grand Cross of (the Order of) St. Kotat (or Damel Grand Cross of (the Order of) St. Kotat (or Damel Grand Cross of (the Order of) St. Might Grand Commander of the Indian Empire G.C.M.G. Kright Grand Commander of the Star of India G.C.Y.O. Kinght Grand Commander of the Star of India G.C.Y.O. Kinght Grand Commander of the Star of India G.C.Y.O. Kinght Grand Commander of the Star of India G.C.Y.O. Kinght Grand Commander of the Star of India G.C.Y.O. Kinght Grand Commander of the Star of India G.C.Y.O. Kinght Grand Commander of the Star of India G.C.Y.O. Kinght Grand Commander of the Star of India G.C.Y.O. Kinght Grand Commander of the Star of Indian G.C.Y.O. Kinght Grand Commander of the Star of Indian G.C.Y.O. Kinght Grand Commander of the	T T C A				
F.R.S.C. Fellow of the Royal Society of Edinburgh F.R.S.E. Fellow of the Royal Society of Edinburgh F.R.S.G.S. Pellow of the Royal Society of Edinburgh F.R.S.L. Fellow Work Society of Health F.R.S.L. Fellow of the Royal Society of Internature F.R.S.L. Fellow of the Royal Society of Tropical M. F.R.S.S.A. Fellow of the Royal Society of Tropical M. F.R.S.S.A. Fellow of the Royal Society of Tropical M. F.R.S.S.A. Fellow of the Royal Society of Tropical M. F.R.S.S.A. Fellow of the Society of Antiquaries of Society of Society of Antiquaries (S.S.A. Social M. F.S.A. L.A. M. African Library Association F.S.A. Fellow of the Society of Antiquaries of Society of Antiquaries (S.S.A. Fellow of the Society of Antiquaries (S.S.A. Fellow of Thirty College, Dubal Delta M. F.R.S.S. Fellow of Thirty College of Music, London. F.T.C.D. Fellow of Trinity College of Music, London. F.T.C.D. Fellow of Trinity College of Music, London. F.T.S.S. Fellow of the Editor Fellow Fe					
F.R.S.E. Fellow of the Royal Society of Edinburgh F.R.S.G.S. Fellow of the Royal Society of Literature F.R.S.S. Fellow of the Royal Society of Literature F.R.S.S. Fellow of the Royal Society of Literature F.R.S.S. Fellow of the Royal Society of South Africa and Hygiene F.S.A. (Society of Fellow of the Royal Society of Tropical F.S.A. Fellow of the Royal Society of Antiquaries of Society of South Africa and Hygiene F.S.A. (Society of Society of Antiquaries of Society of Pallow of the Society of Antiquaries of Society of Pallow of Trinity College of Antiquaries of Society of Pallow of Trinity College of Music, London. F.T.I. Fellow of the Royal Society of South African Library Association F.S.B.E. Fellow of the Royal Society of South African Library Association F.S.B.E. Fellow of the Royal Society of Society F.T.C.D. Fellow of Trinity College of Music, London. F.T.I. Fellow of Trinity College of Music, London. F.T.I. Fellow of Trinity College of Music, London. F.T.I. Fellow of the Zoological Society Society of South African Cross of (the Order of) St. Kight Grand Cross of the Star of India G.C.V.O. Kight Grand Cross of the Star of India G.C.V.O. Kight Grand Cross of the Star of India G.C.V.O. Star of I	777		, , , , , ,		
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	.	J		• •	Transfer or Striker A

	ABBREV	IATIONS	
M.Ch.D	Master of Dental Surgery	M.R.S.A.E.	Member of Royal Society of Agricultural
M.Ch.E	Master of Chemical Engineering	M.R.O.M.D.	Engineers
M.C.L.	34	M.R.S.L	Member of the Royal Society of Literature
	Master of Commerce	M.S.	Master of Science; Master of Surgery
M.C.S		M.S.B.E	Member of the Society for British Ento-
	Maryland		mology
	Doctor of Medicine	M.Sc.	Master of Science
	Master of Dental Surgery	M.Sc.A	Master of Applied Science
M.E	Mechanical Engineer, Master of Education,	M.Sc.Ag	Master of Science in Agriculture
	Master of Engineering, Military Engi-	M.Sc.(Chem.	Master of Science in Chemical Technology
	neer, Mining Engineer	Tech.)	
Ме	Maine	M.Sc.D	Master of Science in Dentistry
M.E.E		M.Sc.F	
M.E.I.C	Member of the Engineering Institute of	M.Sc.(Med.)	Master of Science in Medicine
	Canada	M.Sc.N	
Mems	Members	M.S.D	
M.Eng	Master of Engineering (Dublin)	M.S.L	
M.F	Master of Forestry	M.S.P.	
	Master of Fine Arts	M.S.W	
	Monseigneur; Monsignor	M.Th.	
M.H.A			. Bachelor of Music
M.H.R M.I.C.E	Member of the House of Representatives		Doctor of Music
M.I.C.E	Member of the Institution of Civil Engineers	37.17.0	
M.I.Chem.E.	Member of the Institution of Chemical	36 37 0	
Bi.i.Chom.b.	Engineers	M.V.Sc	Master of Veterinary Science
Mich	76.1.		
M.I.E.A	Member of the Institution of Engineers of	Nat	National
	Australia	N.B.	New Brunswick
M.I.E.E	Member of the Institution of Electrical	N.C.	North Carolina
	Engineers	N.D	North Dakota
Mil	Military	Neb.	Nebraska
M.I.Loco.E.	Member of the Institute of Locomotive	N.E.I	Netherlands East Indies
	Engineers	Nev	Nevada
M.I.Mar.E	Member of the Institute of Marine En-	N.H	New Hampshire
******	gineers	N.J	New Jersey
M.I.(Mech.)E.	Member of the Institution of Mechanical	N.M	New Mexico
MINE P	Engineers	N.S	Nova Scotia
M.I.Min.E.	Member of the Institution of Mining	N.S.W	New South Wales
M.I.M.M	Engineers	N.U.I.	
MI.I.MI.MI	Member of the Institution of Mining and Metallurgy	N.W.F.	
Minn	Minnesota	37 77	
Miss	Mississippi	N.Z	New Zealand
M.I.P.E	Member of the Institution of Production		
	Engineers	0	Ohio
M.I.Struct.E.	Member of the Institution of Structural	O.B.E	Officer of (the Order of) the British Empire
	Engineers.	O.E.E.C	Organisation for European Economic Co-
M.I.T	Massachusetts Institute of Technology		operation
M.L		O.F.S	Orange Free State
	Member of the Legislative Assembly	Okla	Oklahoma
	Member of the Legislative Council	O.M	Member of the Order of Merit
M.Litt	Master of Letters	Ont	0 1 :
M.L.S	Master of Library Science	O.P	Order of Preachers (Dominicans)
M.M.S.A	Master of Midwifery of the Society of	Ore	Oregon
36.36	Apothecaries	O.R.S.T.O.M.	Office de la Recherche Scientifique et
M.Mus	Master of Music	2 1	Technique Outre Mer
Mo	Missouri	Oxon	Of Oxford University
MD	Montana Member of Parliament		
NA TO TT	Master of Public Health	De	Democratic
M.P.H M.Ph	Master of Philosophy (U.S.A.)	Pa	Pennsylvania
M.R.A.S	Member of the Royal Asiatic Society	D.C	Parliament; Parliamentary
M.R.C.P.(E.)	Member of the Royal College of Physicians	מות	Privy Councillor
	(Edinburgh)	מוס	Bachelor of Pedagogy
M.R.C.S.(E.)	Member of the Royal College of Surgeons	Pd.M	Doctor of Pedagogy Master of Pedagogy
,	(Edinburgh)	P.E.I.	Prince Edward Island
M.R.C.V.S	Member of the Royal College of Veterinary	P.E.N.	Poets, Playwrights, Essayists, Editors and
	Surgeons		Novelists (Club)
M.R.I	Member of the Royal Institution	Ph.B	Bachelor of Philosophy
M.R.I.A	Member of the Royal Irish Academy	Ph.D	Doctor of Philosophy
M.R.S.A	Member of the Royal Society of Arts	Ph.G	Graduate in Pharmacy
			E ₁

		ABBREVI	ATIONS		
Ph.L. Ph.M. P.Q. P.R.A. Pres. P.R.I. P.R.I.B.A. Priv.Doz. Prof. P.R.S. P.R.S.A. Publs.		Licentiate of Philosophy Master of Philosophy Province of Quebec President of the Royal Academy President President of the Royal Institute (of Painters in Water Colours) President of the Royal Institute of British Architects Recognised teacher not on the regular staff Professor President of the Royal Society President of the Royal Scottish Academy Publications	Sc.D. S C.D. S C.D. S.Dak. Sec. S.I.S.T.E. S.J. S.J. S.M. S.T.B. S.T.D. S.Th.L. S.T.M. Supt.	R	Doctor of Science Doctor of Commercial Science South Dakota Secretary Special Institution for Scientific and Technological Education and Research Society of Jesus Doctor of Juristic Science Master of Science Bachelor of Sacred Theology Doctor of Sacred Theology Sacrae Theologiae Lector (Reader or Professor of Sacred Theology) Master of Sacred Theology Superintendent
O.C. Ö.H.P. Que.	••	Queen's Counsel Honorary Physician to the Queen Quebec	T.D. Tenn. Tex.	••	Territorial Decoration; Tealta Dáil (Member of the Dail), Teaching Diploma Tennessee Texas
R.A. R.A.C.P. R.A.C.S. R.A.F. R.A.M.	•••	Royal Academy; Royal Academician Royal Australasian College of Physicians Royal Australasian College of Surgeons Royal Air Force Royal Academy of Music	Th.B. Th.D. Th.M. T.U.C.	::	Bachelor of Theology Doctor of Theology Master of Theology Trades Union Congress
R.A.S. R.B.A. R.C.A.	•••	Member of the Royal Cambrian Academy; Member of the Royal Canadian Academy	U.K. U.N. U.N.A. UNESCO	•••	United Kingdom United Nations United Nations Association United Nations Educational, Scientific and
R.D.I. Rep. resgnd. retd.		Royal Designer for Industry Representative; Represented resigned retired	UNICEF Univ.		Cultural Organisation United Nations International Children's Emergency Fund University
Rev. R.G.S. R.Hist.S. R.I.	•••	Reverend Royal Geographical Society Royal Historical Society Rhode Island; Royal Institute (of Painters in Water	U.N.R.W. U.P. U.S.A. U.S.S.R.	A. ::	United Nations Relief Works Agency Uttar Pradesh (United Provinces) United States of America Union of Soviet Socialist Republics
R.I.B.A. R.I.C.S. R.M.P.A. R.N,	•••	Colours) Royal Institution Royal Institute of British Architects Royal Institution of Chartered Surveyors Royal Medico-Psychological Association Royal Navy	Va. V.C. V.D.	••	Virginia Victoria Cross Volunteer Officers Decoration, Victorian Decoration Volumes
R.O.I. R.P. R.S.A.	•••	Royal Institute of Oil Painters Member Royal Society of Portrait Painters Royal Scottish Academy Royal Society of Arts	V.R.D. Vt	••	Royal Naval Volunteer Reserve Officers Decoration Vermont
R.S.C. R.S.W. Rt. Hon.	••	Royal Society of Canada Royal Scottish Society of Painters in Water Colours Right Honourable	W.A. Wash.	••	Western Australia Washington (State)
Rt. Hou. Rt. Rév. R.W.S.	::	Right Reverend Royal Society of Painters in Water Colours	Wasii. W.E.A. Wis. W Va. Wyo.	••	Workers' Educational Association Wisconsin West Virginia Wyoming
S.C.	••,	South Carolina; Senior Counsel (Republic of Ireland)	, 0.	•••	,
SCAP Sc.B.	•••	Supreme Command Allied Powers Bachelor of Science	Y.M.C.A. Y.W.C.A.		Young Men's Christian Association Young Women's Christian Association

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UNESCO

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANISATION

AIMS AND FUNCTIONS

(Article 1 of Unesco Constitution)

The purpose of the Organisation is to contribute to peace and security by promoting collaboration among the nations through education, science, and culture in order to further universal respect for justice, for the rule of law, and for the human rights and fundamental freedoms which are affirmed for the peoples of the world, without distinction of race, sex, language, or religion, by the Charter of the United Nations.

To achieve Unesco's purpose, the General Conference adopts at its biennial sessions a basic programme which stresses the main ideas underlying the aims of the Organisation and gives coherence to the detailed work plans. While the latter naturally vary from year to year, the basic programme covers the policies and main lines of work, with little change except of emphasis on this or that sector. Thus from 1965 onwards the scientific sectors (both stimulation of research and application of science to development) are to receive a priority second only to that accorded to educational activities in 1962.

The chief tasks of Unesco, as defined in its basic programme, are as follows:

- To eliminate illiteracy and encourage universal free and compulsory education;
- 2. to obtain for each person an education conforming to his aptitudes and to the needs of society, including technological training and higher education;
- 3. to promote, through education, respect for Human Rights throughout all nations;

- 4. to overcome the obstacles to the free flow of persons, ideas, and knowledge between the countries of the world;
- to promote the progress and utilisation of science for the benefit of all mankind;
- to focus the social sciences on the study of particular social questions for the benefit both of the general public and of governments;
- 7. to assure the preservation of the world's inheritance of books, works of art and monuments of history and science, to make this cultural heritage known and available to all, and to promote mutual appreciation of differing cultural values;
- 8. to advance through the media of mass communication the causes of truth, freedom, and peace;
- 9. to bring about better understanding among the peoples of the world and to convince them of the necessity of co-operating loyally with one another in the framework of the United Nations;
- 10. to provide clearing-house and exchange services in all its fields of action, together with technical aid to nations and peoples in emergencies.

MEMBER STATES

(November 1st, 1964)

Afghanistan Albania Algeria Argentina Australia Austria Belgium Bolivia Brazil Bulgaria Burma Burundi Byelorussia Cambodia Cameroun Canada Central African Republic Cevlon Chad Chile China, Republic of (Taiwan) Colombia Congo (Léopoldville) Congo (Brazzaville) Costa Rica Cuba Cyprus Czechoslovakia Dahomey Denmark Dominican Republic

El Salvador Ethiopia Finland France Gabon German Federal Republic Ghana Greece Guatemala Guinea Haiti Honduras Hungary Iceland India Indonesia Iran Iraq Ireland Israel Italy Ivory Coast Jamaica lapan Tordan Kenva Korea, Republic of Kuwait Laos

Ecuador

Liberia Libya Luxembourg Madagascar Malawi Malaysia Mali Mauritania Mexico Monaco Mongolian People's Republic Morocao Nepal Netherlands New Zealand Nicaragua Niger Nigeria Norway Pakistan Panama Paraguay Peru Philippines Poland Rumania Rwanda Saudi Arabia

Somalia Spain Sudan Sweden Switzerland Syria Tanganyika Thailand Togo Trinidad and Tobago Tunisia Turkey Uganda Ukraine U.S.S.R. United Arab Republic United Kingdom United States of America Upper Volta Uruguay Venezuela Viet-Nam, Republic of Yemen Yugoslavia Zambia

Associate Members

Oatar

British East Carribean

Group

Mauritius

REGULAR PROGRAMME

Senegal

Sierra Leone

1. DEVELOPMENT OF INTERNATIONAL CO-OPERATION

Lebanon

Unesco aims to maintain, increase and diffuse knowledge and to encourage co-operation among the nations in all branches of intellectual activity. The League of Nations set up its International Committee on Intellectual Co-operation for the same purpose, and Unesco took over this heritage in an attempt to restore contacts broken by the Second World War. It was realised that an effective and economical method would be, first, to support existing specialist organisations, and second to encourage individual scientists, scholars, writers and artists.

The natural sciences was the first sphere in which Unesco was able to co-operate with an already firmly established body of scientific associations. Unesco's success in this field prompted action where contacts at international level were less advanced. To achieve this a number of institutions were created: the International Council for Philosophy and Humanistic Studies, the International Theatre Institute, the International Music Council, the International Association of Plastic Arts. Unesco also decided to support the work of the International PEN and the International Union of Architects. The International Council of Archives was founded on the initiative of Unesco. Financial aid is given to the International Council of Museums, the International Federation of Library Associations and the International Federation of Documentation.

In the field of social sciences, Unesco promoted the establishment of international bodies in such major

disciplines as sociology, political science, legal science and economics. Subventions have been granted to a few carefully-selected associations, including the International Economic Association, the International Statistical Institute, the International Sociological Association. The International Social Science Council and the International Committee for Social Sciences Documentation were also helped.

In the field of education, financial assistance has been given to the World Confederation of Organisations of the Teaching Profession, the International Association for Teachers' Federation, the International Association for Vocational Guidance, the World Organisation for Early Childhood Education, the New Education Fellowship, etc. A major step was the creation in 1950, with UNESCO's help, of the International Association of Universities. Subventions have also been granted to the International Bureau of Education for its documentation services.

In the field of mass communication, Unesco has found that associations have more varied activities and less well defined programmes. It has founded the International Centre of Films for Children, the International Association for Mass Communication Research, the International Film and Television Council.

Unesco also organises seminars, international discussions and conferences, for example the International Conference of Artists held in 1952, the Conference on Radio-isotopes in Scientific Research held in 1957, the International Conference on Information Processing in June 1959, and the Intergovernmental Conference on Oceanographic Research in July, 1960.

2. IMPROVING DOCUMENTATION

These activities include the collection, analysis and diffusion of information and statistics, and the encouraging of other organisations to do similar work. Since 1948 this has been increasingly achieved through the Education Clearing House.

Unesco has also built up a documentation and information service on opportunities and facilities for study abroad. The annual publications Study Abroad and Vacations Abroad bring such facts to a wide public.

The Clearing House in Mass Communications collects information on mass media techniques and the technical needs of mass media institutions.

In the field of culture Unesco has produced the *Index Translationum* and archives of colour reproductions of paintings. In the Social Sciences bibliographies have been produced in four major fields, sociology, political science, economics and social and cultural anthropology. Multilingual dictionaries and biographies are being prepared and attempts have been made to standardise techniques and terminologies. A study has also been made of scientific and technical dictionaries and a bibliography of monolingual glossaries has been produced.

Unesco also promotes the creation of scientific and technical documentation centres in order to meet the essential need of scientists and technicians for information on the work of their colleagues elsewhere.

Altogether, 36 national centres for the international exchange of publications are linked with Unesco. One of the chief aims of the International Centre for the study of the Preservation and Restoration of Cultural Property, newly set up in Rome, is to collect, analyse and distribute information concerning scientific and technical problems arising in the fields of preservation and restoration. Similarly the Documentation and Study Centre for the History of Art and Civilisation in Ancient Egypt is now in full operation.

3. SCHOOL EDUCATION

The Unesco programme for school education may be divided into five main parts, Free and Compulsory Education; the School Curriculum and Improvement of Education; Education for International Understanding and Co-operation; Vocational and Technical Education; and Higher Education. An essential concomitant to all these is the need for a programme of educational planning.

Forty-five per cent of the world's population of fifteen years old and over cannot read or write; forty-five per cent of the world's children of school age do not attend school. Of those who do attend school, many are poorly educated because of inadequate facilities, undertrained teachers and an outmoded curriculum. It is, in addition, realised that the need for humanistic studies and for education for international understanding has never been so great. Recent developments in science and industry have also created new problems in higher education or have accentuated old ones.

Free and Compulsory Education. For more than ten years Unesco has conducted a campaign to extend free and compulsory education to all children of primary school age. A series of international and regional conferences was organised; direct assistance was offered to Member States in the form of experts and of fellowships for national educators. The first major effort for training teachers was launched in 1957 as Unesco's Major Project for the Extension of Primary Education in Latin America. The Project concentrates upon teacher training and educational planning, and is now in full operation.

Three major enquiries into the educational needs of tropical Africa, the Arab-speaking States, and South and South-East Asia, were completed, as a result of which the General Conference, in December, 1962, deciding to continue giving priority to educational programmes, re-adopted programmes for the development of education in these areas, totalling \$8.8 million for 1963-64, in addition to a \$4 million emergency programme for Africa financed out of voluntary contributions, and to Special Fund activities (see below).

The School Curriculum and the Improvement of Education. In 1954 a programme for the Improvement of the School Curriculum was initiated by the creation of an international advisory committee, by the holding of regional seminars, by providing the services of experts, by disseminating information on mechanisms of curriculum revision, curriculum research, etc., by initiating an inquiry into the adaption of the school curriculum to the age and development levels of children. In 1960 Unesco completed an inquiry into the role and place of the humanities in school education. Two outside bodies are closely associated with UNESCO in this field: the International Bureau of Education at Geneva, and the Institute of Education at Hamburg. Education for International Understanding and Co-operation. Unesco seeks to stimulate interest in educational activities by facilitating international exchanges of ideas among educational leaders and teachers, in aiding in the development of better methods and materials and in

education for international understanding.

Vocational and Technical Education. Activity in this field has led mainly to the provision of services of experts, fellowships and equipment. Regional conferences and training courses on Vocational and Technical Education have recently been organised.

encouraging action within schools on many aspects of

By an agreement reached in 1960 between UNESCO and the International Labour Office, two new international instruments have been completed, the UNESCO one dealing with technical education in school and the ILO one with vocational training after or out of school.

Higher Education. Work in this sphere is carried out mainly through the International Association of Universities, created in 1950. A scheme of collaboration on a large scale started in 1960 with some of the American Foundations on the subject of access to universities.

Educational Planning. As a background to all education, it has been increasingly realised that educational planning is unquestionably a necessity in the world today, not only because of the tremendous economic, technical and intellectual effort involved in all educational work, but for a more fundamental reason—because of the speed with which it is developing and its growing complexity. The General Conference authorised Unesco to furnish Member States with three forms of assistance in this field. Firstly, the Organisation advises governments on planning methods and procedures. Secondly, Unesco sends missions and experts to countries requesting them, to advise governments on appropriate machinery for their planning services and the preparation and implementation of their overall development plans. Since 1960, planning missions have been sent to some 30 countries and technical assistance in the form of expert services has been provided for about 50 countries. These activities will probably be increased in the future. Thirdly, Unesco assists in training national planning staff. To supervise this field of assistance, Unesco, with help from the World Bank and the Ford Foundation established an International Institute for Educational Planning in Paris, which started work in early 1964 with the basic aim of helping nations accelerate their economic and social progress through improved educational planning.

4. EDUCATION OUTSIDE SCHOOL

The work in this group of activities is divided into three sections: fundamental education, education of adults, and the development of youth activities.

Fundamental Education (Community Development). The main effort is directed towards those people who have not had the opportunity to go to school. Fundamental education aims at imparting the minimum knowledge and skills that people need to help themselves to improve their standard of living and to take a productive part in the social and economic life of their community. The basic need is to combat ignorance, which extends over half the world's population and is instrumental in breeding disease, poverty and lethargy.

Two regional fundamental education centres have been set up: one for Latin American States at Patzcuaro, Mexico, established in 1951, the other for Arab States at Sirs-el-Layyan, Egypt, established in 1955. Unesco has helped in setting up national expert training centres in a number of countries and also co-operates in many fundamental and adult education projects undertaken by Member States in Asia, Africa, Latin America and the Arab States.

Adult Education. The aim is to foster education, not only at school but throughout life. Unesco assists Member States and appropriate international organisations in the development of adult education activities by: co-operating to set up national and regional seminars; sending field missions to make surveys and advise on projects; publishing reports on projects and activities.

During 1964, Unesco sponsored two regional conferences on the planning and organisation of literacy programmes in Africa and in the Arab States, where the vital importance was stressed of all forms of out-of-school education in a rapidly changing world. During 1964, also, plans for an experimental programme in mass literacy, which would prepare the way for a World Campaign for Universal Literacy, were recommended by a committee of experts on literacy set up to advise Unesco's Director General, who had been charged by the UN General Assembly to explore the possibility of such a world campaign. Among recommendations was one that three-year pilot projects in six to eight selected countries should be undertaken by Unesco as part of the first of three consecutive phases in a long-term programme to achieve universal literacy.

Youth Work. The work is concentrated on assisting Member States and appropriate international organisations and institutions in the development of youth education for social responsibility and international understanding and co-operation. The Section supplies information and brings groups interested in the same problems into contact with each other. It also sponsors international voluntary work camps and an annual conference of work camp organisers. Another important interest is the Unesco Youth Institute at Gauting, Germany. The Institute is an international meeting place where conferences are organised to study youth activities. During 1964, Unesco organised an international youth conference at Grenoble, France, attended by delegates from 73 Member States and the first inter-governmental conference ever held on youth problems.

5. AID TO SCIENTIFIC RESEARCH IN THE NATURAL SCIENCES AND THEIR APPLICATION TO DEVELOPMENT

These activities cover the following fields: basic sciences, earth sciences (astronomy and general geophysics, hydrology, oceanography, physics of the earth's crust, geological sciences, soil sciences, ecological studies and

conservation of natural resources); life sciences (brain research, cell and molecular biology, microbiology, participation in basic research on cancer).

The exchange of ideas and results is encouraged by congresses and documentation, and the award of grants for study tours and missions. More concrete action was provided in the specific subjects mentioned above. Three main methods have been devised to produce the desired results. The first is to establish for each subject a new intergovernmental body, whether regional or inter-national, which conducts its scientific work on its own initiative. The European Organisation for Nuclear Research and the International Computation Centre are examples of bodies of this kind. The second is to set up, within Unesco itself, an administrative co-ordinating body which possesses certain financial resources and acts on the scientific advice of a group of experts selected for that purpose: an example is provided by the new Inter-Governmental Oceanographic Commission set up in 1961, with a permanent staff within the Secretariat to service it. The third is to provide assistance for the establishment and operation of a non-governmental body responsible for achieving the co-operation desired, e.g. the International Brain Research Organisation set up in 1960.

Advisory Committees of experts of world-wide repute have been set up to administer the Arid Zone, the Marine Sciences and Humid Tropics Research Projects. Among the recent or new initiatives undertaken by Unesco, or those to which the Organisation provides its active support include the International Years of the Quiet Sun, the World Magnetic Survey (a continuing project of the International Geophysical Year), the International Hydrological Decade, as well as the International Indian Ocean Expedition, the International Co-operative Investigations of the Tropical Atlantic, and the Co-operative Study of the Kuroshio. Furthermore, in the field of seismology, Unesco has set up a system of emergency missions to send experts to the affected areas immediately after earthquakes have occurred.

General advice has also been given by short-term missions on the establishment of national scientific research centres.

The most important activity has been the creation in toto of institutions and services previously almost non-existent. It has been possible in this way to strengthen geophysical and seismological observatories, and geological and hydro-geological services.

The application of science and technology according to the needs of developing countries will henceforth take a large place among the scientific activities of Unesco: technical and economic evaluation of these needs and direct aid which could be provided to Member States are the basic features of this programme.

6. APPLIED SOCIAL SCIENCES

The Social Science programme makes a clear distinction between the promotion of pure research and learning in the field of the social sciences and the use of the social sciences for solving social problems. The promotion of original research has also taken place into the attitudes of the people of one country towards people of other countries and into the roots of tension in local communities within different societies. On the other hand, a broad study of principal research trends throughout the world in the social and human sciences is in progress under Unesco's direction.

An inter-disciplinary programme has been constituted on the three great problems of our time: respect for human rights and the struggle against racial prejudice, the economic and social problems of newly-independent countries, the economic and social consequences of disarmament.

The analysis of the role of education, science, technology and information in economic development, pursued methodically, will continue to furnish the data necessary for the operational activities of Unesco and other international organisations, as well as the programme of statistical analysis and human resources assessment.

7. PRESERVATION OF THE CULTURAL HERITAGE OF MANKIND

Activity in this section is directed to the conservation and protection of the world's inheritance of books, works of art and monuments of history and science. Encouragement is also given to the exchange of publications, objects of artistic and scientific interest and other materials of information. A World Campaign for Monuments was launched by Unesco in 1964.

The protection of cultural property, historic monuments and of museum objects, archives, libraries, etc. during war is sought through the International Convention for the Protection of Cultural Property in the Event of Armed Conflict, signed at The Hague in 1954. Fifty-two Member States are parties to this Convention.

An International Centre for the Study of the Preservation and Restoration of Cultural Property has been established in Rome. A manual on the protection of cultural property has been published which deals with techniques for preservation and conservation. Since 1955, missions have advised on the preservation of culture in Peru, Yugoslavia, the Lebanon, Syria, Iraq, Israel, Egypt, Jordan, Iran, Pakistan, Afghanistan, Ecuador and the Sudan. International Seminars on Arts and Education have also been held since 1950 and two International Societies have been launched—one for Education through Art and the other for Music Education.

The International Campaign to save the Monuments of Egyptian and Sudanese Nubia launched in February, 1960, by Unesco, achieved almost total success in demonstrating the world's cultural solidarity. At the present time, the archaeological survey in the areas that will be inundated after the construction of the new Aswan dam is largely completed, while the dismantling of the threatened temples and monuments is being completed. The operation for safeguarding the temples of Abu-Simbel has begun.

8. MUTUAL APPREGIATION OF CULTURAL VALUES

The aim is to encourage a better mutual knowledge of the cultures of different peoples. In this way it is hoped to lay the foundations of real international understanding necessary for maximum peaceful co-operation among peoples.

The ninth session of Unesco's General Conference (New Delhi, 1956) established a ten-year major project aimed at developing the "Mutual Appreciation of Eastern and Western Cultural Values". The scheme aims to break down the barriers to the flow of information and ideas between the orient and occident. It has stimulated a very large number of cultural activities of an exchange nature throughout the world.

Unesco appointed a Commission in 1951 to prepare the publication of a history of the scientific and cultural development of mankind. The first two volumes, dealing with pre- and proto-history, were published in London in May 1963. A quarterly Journal of World History is published by the Commission.

The department sponsors international circulation of masterpieces of the visual arts and of music. Exhibitions of reproductions representing the great periods of both Western and Eastern art are circulating in Member States.

The Unesco World Art Series albums, devoted to works of art not sufficiently known outside their countries of origin, are published in five languages. Catalogues listing high quality reproductions of paintings of all periods have been published for the guidance of students, teachers and the general public.

Under the auspices of the International Music Council a collection has been made of recordings of traditional and contemporary music of all continents.

Great works representative of the genius of different people are translated and published. Translations of works from twenty-six different literatures have so far been made, chiefly into English and French.

9. FREE FLOW OF INFORMATION

Among the principal methods used are: sponsorship of international agreements; proposals to reduce telecommunication, postal, transport and tariff obstacles to the flow of information; administration of coupon schemes designed to overcome currency barriers; action to improve the techniques and expand the means of communication; the publication of reports and studies focusing public attention on obstacles to the free flow of information.

The underlying reason for Unesco's action in this field is that the dearth of communication facilities in large areas of the world, a maze of non-political restrictions and the high cost of sending information from country to country constitute formidable obstacles to the creation of an enlightened public opinion. In short, it appears that nearly 70 per cent of the world's peoples lack the means of being adequately informed of developments at home, let alone in other countries. "Adequate' facilities, according to a Unesco minimum standard accepted by the UN, consist of at least ten copies of a daily newspaper, five radio receivers and two cinema seats for every 100 persons. More than 100 countries and territories are below this minimum. Thus, for millions of people freedom of information, guaranteed by the universal Declaration of Human Rights, is far from being a reality.

Here are some of the results achieved:

- I. Two international Agreements have been sponsored by Unesco: the Agreement on the Importation of Educational, Scientific and Cultural Materials and the Agreement for Facilitating the International Circulation of Visual and Auditory Materials of an Educational, Scientific and Cultural Character.
- 2. Proposals have been submitted to international conferences in the telecommunication, postal, transport and trade fields. Substantial concessions have been made in the rates and facilities offered.
- 3. Studies have been published such as World Communications, Books for All, Trade Barriers to Knowledge, Transmitting World News and Mass Media and National Development, which have spurred national efforts to reduce obstacles to the flow of information.
- Member States have taken steps to facilitate the movement of persons engaged in educational, scientific and cultural activities.
- Unesco's Coupon Schemes have helped to remove currency conversion obstacles, enabling individuals or organisations to purchase foreign books, films and other information materials and to pay for educational travel abroad.

In addition, Unesco has studied the means of ensuring that technological advances in communication should be